

Organic Chemistry Honors Course Overview

Organic Chemistry is an extensive discipline and this course is designed for students interested in continuing their studies in chemistry. This course is intended to provide an introduction to the chemistry of carbon compounds and will afford students a brief survey of the topics associated with the chemistry of carbon compounds. Potential topics include structure and bonding, stereochemistry, reactions and mechanisms, and the analytical methods utilized to investigate chemical reactions. Throughout the course, emphasis is placed on proper and safe laboratory techniques, utilizing experimental investigations to foster student development of critical thinking, abstract reasoning, and quantitative problem solving skills.

As Organic Chemistry Honors is a course that extends beyond the state required curriculum, the Organic Chemistry Honors curriculum embraces the science and engineering practices and crosscutting concepts of the Next Generation Science Standards, but extends beyond the disciplinary core ideas found in the Next Generation Science Standards. The Organic Chemistry Honors curriculum also helps to prepare students to meet and exceed the NJ 2014 21st Century Life and Careers STEM Standards.